

variation in the species may show *Cryptotermes piceatus* Snyder from Hawaii, the Marquesas and Hongkong as also *Cr. darwini* Light from the Galapagos Islands to be conspecific with *Cr. brevis* (Walker).

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## AN ANNOTATED LIST OF THE *LEPTURINI* OF OREGON

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The following list of the members of this tribe of the family *Cerambycidae* contains host records and points of collection of the several species known to occur within the State, together with authorities for each. Although the following list is probably incomplete in some respects, it is hoped that it may be of service as a ready reference to students of the *Coleoptera*. In this paper, the classification follows Swaine and Hopping '28, the species are, however given in alphabetical arrangement under the several genera.

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### Genus *ACMÆOPS* Lec., 1850

*A. atra* (Lec.) 1850; Oregon (Leng).

*A. basalis* (Lec.); Warner Mts., Lake County, Oregon (Chamberlin).

*A. directa* Newman; Washington (probably Oregon); *Liriodendron*, *Castanea* (Craighead).

*A. longicornis* var. Kby.; Steens Mts., Oregon (Scullen).

*A. mollipilosa* (Lec.) 1860; Oregon (Leng).

*A. pratensis* (Laich.) 1781-84; Oregon (Leng); Warner Mts., Lake County, Oregon; and Sparta, Oregon (Chamberlin).

*Acmaeops proteus* (Kby.); Whitman Nat'l. Forest; Melhorns Mill, near Halfway, Baker County, Oregon (Chamberlin).

*A. subaena* (Lec.); Klamath County, Oregon (Chamberlin).

*A. subpilosa* Lec.; Corvallis, Oregon (Moore, G. F. Mozzette, Schwarz, Farrell, J. C. Bridwell, A. L. Lovett); Condon, Oregon and Soap Cr., Benton County, Oregon (J. C. Bridwell).

*A. subpilosa coloradensis* Csy.; Corvallis, Oregon (Chamberlin).

*A. tumida* (Lec.) 1857; Corvallis, Ore. (Schwarz); Klamath Falls, Oregon (Chamberlin).

#### Genus ALOSTERNA Mulsant, 1863

*A. keeni* Csy., 1913; California, Oregon, British Columbia (Swaine and Hopping); “. . . variety of *A. rubida* Lec.” (Van Dyke); “. . . this species . . . .. has red and more sparsely punctured elytra, etc.” (Sw. & H.).

*A. rubida* Lec., 1873; California, Oregon (Swain and Hopping); Pamela Lake, Mt. Jefferson, Oregon, altitude of 3000 ft. (J. C. Bridwell); “Probably breeds in Coniferae” (Van Dyke).

#### Genus ANOPLODERA Mulsant, 1840

*A. amabilis* Lec., 1857; Pamela Lake, Mt. Jefferson, Oregon (J. C. Bridwell); in *Pinus ponderosa* (Hopping).

*A. aspera* Lec., 1873; in *Betula* (Craighead).

*A. barberi* Fall, 1907; in dead *Picea sitkensis* (Essig).

*A. behrensii* Lec., 1873; Mary's Peak, Oregon (Gentner, Lovett); Newport, Oregon (R. E. Dimick); Mt. Jefferson, Oregon (J. C. Bridwell); in *Pseudotsuga taxifolia* and *Picea sitkensis* (Van Dyke).

*A. brevicornis* Lec., 1873; California (Swaine and Hopping); Oregon (W. J. Chamberlin); in *Abies magnifica* (Blaisdell); in *Pinus ponderosa* and *Abies concolor* (Chamberlin).

*A. canadensis* Oliv., 1795; Blue Mts., and Hood River, Oregon (Childs); Corvallis, Oregon (Buchanan); Santiam Nat'l. Forest, and Corvallis, and Linn County, Oregon (Chamberlin); in *Abies grandis*, *Pinus*, and *Tsuga* (Chamberlin); in *Pinus contorta*, *Tsuga heterophylla* (Craighead); in *Picea* (Felt); in *Pinus strobus* (Swaine).

*A. carbonata* Lec., 1860; ‘Wash. Terr.’ (Swaine and Hopping); probably Oregon; *Populus trichocarpus* (Sw. & Hopping).

*A. chrysocoma* Kby., 1837; Whitman Nat'l. Forest, and Klamath Falls, and Melhorn's Hill, near Halfway, Baker County, Oregon (Chamberlin); Crater Lake Nat'l Park (Lovett); Wallowa Lake at 4500-5500 ft., and Aneroid Lake at 7500 ft., and Anthony Lake at 7100 ft. (Scullen); Corvallis, Oregon (H. Richmond); in *Pinus flexilis*, *P. ponderosa* (Craighead); in *Pinus contorta*, and Alder (Chamberlin); from Waldport, Oregon (Don Mote).

*A. convexa* Lec., 1850; Cascade Mts., Marion County, Oregon; and Sub-Alpine regions, Mt. Jefferson, Oregon (Bridwell); Three Sisters at 6500 ft.; and Wallowa Lake, Oregon at 6400 ft. (Scullen); Crater Lake Nat'l. Park (Lovett); Hood River, Oregon (Childs).

*A. crassicornis* Lec., 1875; Blue Mts., Oregon (Swaine & Hopping).

*A. crassipes* Lec., 1857; California (Craighead); Baker; and Blue Mts.; and Gold Beach, Oregon (McGinnis); Gold Hill; and Austin; and Anthony Lake Road, Baker County, Oregon (Scullen); Newport (Dimick); Mary's Peak, Oregon (Lovett); Sumpter, Oregon (H. F. Wilson); Hood River, Oregon (Childs); in *Pinus* (Craighead); Laurel, *Pinus ponderosa*, *Sequoia sempervirens*, "more generally in broad-leaf trees," (Chamberlin).

*A. dehiscens* Lec., 1859; Corvallis, and Three Sisters, Oregon (Scullen); in *Pinus ponderosa* (Chamberlin).

*A. dolorosa* Lec., 1861; Rainier; and Detroit; and Pamela Lake, Mt. Jefferson; and Kings Valley, Oregon (Bridwell); Gold Beach, Oregon (McGinnis); in *Pseudotsuga taxifolia* (Chamberlin).

*A. grossa* Lec., 1874; California (Swaine and Hopping); Oregon (Chamberlin); in *Pinus ponderosa* (Chamberlin).

*A. impura* Lec., 1857; sapwood of dead *Sequoia sempervirens* in California; in *Libocedrus decurrens* (Chamberlin).

*A. insignis* Fall, 1907; in *Pinus* and *Pseudotsuga* (Chamberlin); "Doubtful if in Oregon, probably confused with *A. valida* Lec.," (Van Dyke); "Easily distinguished by its rounded elytral apices," (from *A. valida*) . . . . "Apparently very local in distribution," (recorded from Monterey, California) by (Swaine and Hopping).

*A. instabilis* Hald., 1847; *Pinus ponderosa* (Hopping); *Pinus* (Van Dyke).

*A. knulli* Sw. & Hopping 1928; "Wash. Terr." (Swaine and Hopping); probably occurs in Oregon also.

*A. laeta* Lec., 1857; Alpine; and Roseburg, Oregon (Scullen); Sauvies Island, Oregon (Farrell); Corvallis, Oregon (Chamberlin, Wilbur); Newberg, Oregon (Fendall); in *Quercus* (Downes); "Live and other oaks," (Essig).

*A. laetifica* Lec., 1859 Corvallis; and Sexton Mt., Josephine County, Oregon (Scullen); upper Alsea River; and Corvallis, Ore. (Bridwell); Sparta; and Baker County, Oregon; and Klamath County, Oregon (Chamberlin); in *Pinus* (Van Dyke); in *P. ponderosa* and *P. contorta* (Chamberlin).

*A. matthewsii* Lec., 1869; "Dead sapwood of Redwood, Cedar, and similar conifers" (Essig).

*A. nigrella* Say 1825; Joseph, Oregon (Burke); Mt. Jefferson, Oregon (Lovett); Grant County, Oregon (Chamberlin); in *Pinus contorta*, *Larix occidentalis* (Chamberlin); *P. contorta*, *Picea*, *Pseudotsuga* (Craighead).

*A. nigrolineata* Bland., 1865, Santiam Nat'l. Forest, Oregon (Chamberlin); Hood River, Oregon (Childs).

*A. proxima* Say 1823; Corvallis, and Wickham, Oregon (Laura Hill; Nellie Nail).

*A. sanguinea* Lec.; Pamela Lake, Mt. Jefferson, Oregon at 3000 ft.; and Cascade Mts., Marion County, Oregon (Bridwell); Grant County, Oregon (Chamberlin); in *Pinus ponderosa* (Hopping).

*A. sexmaculata* Lnn., 1758; Cascade Mts., Marion County, Oregon (Bridwell); in *Pseudotsuga taxifolia*, *Abies* (Chamberlin).

*A. tibialis* Lec., 1850; Mt. Jefferson, Oregon (Lovett); Sumpter, Oregon (Wilson); Pamela Lake, Oregon (Bridwell); Grant County, Oregon (Chamberlin); in *Larix occidentalis*, *Picea engelmanni*, *Umbelliferae* (Chamberlin).

*A. tribalteata* Lec., 1874; Hope Mts., British Columbia, California; Nevada; Idaho (Swaine and Hopping); Oregon Mt., Josephine County, Oregon (Scullen).

*A. valida* Lec., 1857; Santiam Nat'l. Forest, Oregon (Chamberlin); Pamela Lake, Mt. Jefferson, Oregon (Bridwell); Douglas County, Oregon; in *Pinus ponderosa*, *Tsuga mertensiana*, *Abies* (Craighead); *Pseudotsuga taxifolia* and *Pinus* (Van Dyke); *Tsuga mertensiana* (Chamberlin).

*A. vexatrix* Mann., 1853; Corvallis; Upper Alsea River; Mill Creek Moraine; Mt. Jefferson; base of Mary's Peak; Oregon (Schwarz, J. C. Bridwell, and others); Brookings, Oregon (Scullen); Rock Creek Valley, Benton County, Oregon (Bridwell); "Probably *Coniferae*-feeding," (Van Dyke).

#### Genus ANTHOPHILAX Lec., 1850

*A. mirificus* Bland., 1865; Oregon (Leng).

*A. nigrolineatus* Van D., 1917; Oregon (Leng).

#### Genus CENTRODERA Lec., 1850

*C. nevadica* Lec.; Nevada, California, Southern California; (Swaine and Hopping); "From Northern California, so probably in Southern Oregon," (Van Dyke); in *Pinus ponderosa* (Van Dyke).

*C. oculata* Csy.; California (Leng; Craighead; Swaine & Hopping); probably occurs in Oregon.

*C. spurca* (Lec.); Junction City, Oregon (Ethel Harpole); Corvallis, Oregon (Sprague; Schwarz; Brown; Woods; Chamberlin); Alsea, Ore. (Rosendorf); Minam Nat'l. Forest, Oregon—20 miles northwest of Bly, Oregon (Johnson); *Pseudotsuga taxifolia* (Essig; Chamberlin).

#### Genus EVODINUS Lec., 1850

*E. monticola* (Rand.) 1838; Mary's Peak, Oregon (Moznette); Pamela Lake at 3000 ft. and Mt. Jefferson, Oregon (Bridwell); in *Abies* (Van Dyke).

*E. vancouveri* Csy., 1913; Probably occurs in Oregon (Leng).

## Genus GAUROTES Lec., 1850

*G. cressoni* Bland., 1864; Colorado, Nevada, Northern California (Leng); Corvallis, Oregon (Scullen; Mallett); Ontario, Oregon (Mallett); in *Abies*, *Pseudotsuga taxifolia* (Van Dyke).

*G. lecontei* Csy., 1913; Oregon (Leng).

## Genus GRAMMOPTERA Serville, 1835

*G. filicornis* Csy., 1913; Colorado, New Mexico, British Columbia, Washington (Swaine & Hopping); Hood River, Oregon, and Corvallis, Oregon (Moznette; Wilson); "Adults on wild geranium and rose," (Swaine & Hopping); "Probably breeds in *Coniferae*," (Van Dyke).

*G. molybdica* Lec., 1850; Oakridge, Oregon (Chamberlin); "Adults on blossoms of *Ceanothus divaricatus*," (Swaine and Hopping).

*G. rhodopus* Lec., 1874; "Cala." (Swaine & Hopping); probably occurs in Oregon; "Probably breeds in *Coniferae*," (Van Dyke).

*G. sp. ?*; (in Chamberlin collection); Crater Lake Nat'l. Park, Oregon at 6600 ft. (F. Lyle Wynd).

*G. subargentata* Kby., 1837; Steens Mts., Harney County, Oregon (Chamberlin); Corvallis, Oregon (Moznette); in *Quercus densiflora* and other oaks (Essig); "Probably breeds in *Coniferae* (Van Dyke).

## Genus LEPTACMÆOPS Csy., 1913

*L. alticola* Csy., 1913; Oregon (Leng).

*L. longicornis* Kby.; Buck Mt., Oregon; and Corvallis, Oregon (in Oregon State College collection); Steens Mts., Harney County, Oregon; and near Crane, Oregon (Chamberlin).

*L. lupina* (Lec.) 1860; Oregon (Leng).

*L. militaris* (Lec.) 1850; Oregon (Leng).

## Genus LEPTALIA Lec., 1873

*L. fuscicollis* (Lec.) 1857; California, Vancouver (Leng); probably occurs in Oregon.

*L. macilenta* (Mann.) 1853; McKenzie Bridge, Oregon (Chamberlin); from branch of Oregon Alder (Chamberlin).

## Genus LEPTURA Linn., 1758

*L. anthracina* Lec., 1875; Oregon, Nevada, California (Swaine and Hopping); "Probably breeds in *Coniferae*" (Van Dyke).

*L. obliterated* Hald., 1847; Cascadia, Oregon (Scullen); Mt. Jefferson, Oregon (Chamberlin; Bridwell); Newport, Oregon (Dimick); Mary's Peak, Oregon (Mote; Lovett); Santiam Nat'l. Forest, Oregon (Chamberlin); Blue Mts.; and near Halfway, Baker County, Oregon (Gentner; Chamberlin); Rickreall (Allen);

in *Abies nobilis* (Chamberlin); *Abies*, *Picea engelmanni*, *Tsuga mertensiana*, *Pseudotsuga taxifolia* (Craighead); *Pinus ponderosa* (Hopping); *Pinus murrayana* (Craighead); sapwood of *Sequoia sempervirens*, *Pseudotsuga taxifolia*, and other conifers (Essig).

*L. plagifera* Lec., 1875; Grant County; and near LaGrande; and Klamath County; and Sumpter, Oregon (Chamberlin); in *Pinus contorta* (Chamberlin); *Pinus ponderosa* (Craighead; Hopping).

*L. propinqua* Bland., 1865; Colorado, New Mexico, Utah, California, Washington, Oregon, British Columbia, Nevada, Arizona, Idaho (Leng); "Sierra Nevada and Rocky Mountain species," (Swaine & Hopping); McKenzie Bridge; & Blue Mts. at 7100-7850 ft.; & Cascadia; & Mt. Hood at 6000 ft.; & Mary's Peak, Oregon (Scullen); Sparta, & near Halfway, Baker County, Oregon (Chamberlin); Mt. Jefferson, Oregon (Lovett); Sumpter, Oregon (Wilson); in *Picea engelmanni* (Craighead); *Pinus monticola* and *P. contorta* (Herbert); *Abies* (Van Dyke).

#### Genus OPHISTOMIS (Lec.)

*O. delicata* (Lec.); Sexton Mt., Josephine County, Oregon; and Grave Creek, Josephine County, Oregon (Scullen).

#### Genus PACHYTA Dej., 1821

*P. armata* Lec., 1873; Three Sisters, Oregon (Scullen); Cascade Mts., Marion County, Oregon, at 6000-8000 ft.; & Pamela Lake, Mt. Jefferson, Oregon, at 3000 ft. (Bridwell); Santiam Nat'l. Forest, Oregon (Chamberlin); Mt. Jefferson; & Anna Creek, Klamath County, Oregon (Lovett); Crater Lake, Oregon (Van Dyke); in *Tsuga mertensiana* (Chamberlin).

*P. liturata* Kby., 1837; Melhorn's Mill, near Halfway, Baker County, Oregon (Chamberlin); in dead firs and *Pseudotsuga taxifolia* (at high altitudes—Essig); *Abies grandis* (Chamberlin).

#### Genus PIDONIA Muls., 1863

*P. gnathoides* Lec., 1874; Corvallis, Oregon (Wilson); "Undoubtedly breeds in conifers," (Van Dyke).

*P. scripta* Lec., 1869; Corvallis, Oregon (Laura Hill; Bridwell); Mary's Peak, Oregon (Chamberlin); Summit, Benton County, Oregon (Scullen); in *Pseudotsuga taxifolia* (Chamberlin).

#### Genus PIODES Lec., 1850

*P. coriacea* Lec., 1850; Oregon (Leng).

#### Genus STENOCORUS Geoffroy, 1762

*S. lineatum* Olivier; Whitman Nat'l. Forest; & Mary's Peak, Oregon (Moznette); Santiam Nat'l. Forest; & Grant County, Ore-

gon (Chamberlin); Corvallis, Oregon (Childs; Reynolds); in *Pinus ponderosa*, *P. Jeffreyi*, *P. radiata*, *P. sabiniana*, and "Works under bark of all dead conifers except the *Cupresinae*," (Chamberlin).

### Genus TOXOTUS Dej., 1821

*T. brevicollis* Csy.; Steens Mts., Oregon (Chamberlin); Corvallis, and Woodburn, Oregon (Moznette).

*T. flavolineatus* Lec., 1854; Vancouver; California (Leng); probably in Oregon also.

*T. oregonensis* Csy., 1913; Oregon (Leng).

*T. vestitus* Hald., 1847; Corvallis, Oregon (Totten; Bridwell); LaGrande, Oregon (Reynolds); Woodburn, Oregon (Moznette); Valley, Alsea Mt., Benton County, Oregon (Bridwell); also specimens from Hillsboro, Silver Cr., and Rock Cr., Oregon; (in Oregon State College collection).

*T. virgatus* Lec., 1874; Oregon (Leng).

### Genus TYPOCERUS Lec., 1850

*T. balteatus* Horn, 1878; "Northwest Territories." (Sw. & Hopping); probably in Oregon.

### Genus XYLOSTEUS Frivoldszky, 1838

*X. ornatus* Lec.; "Found in Lassen County, California, close to Oregon border," (Van Dyke); probably occurs in Oregon also; host probably *Abies* (Van Dyke).

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